Utah Weekly Pertussis Update

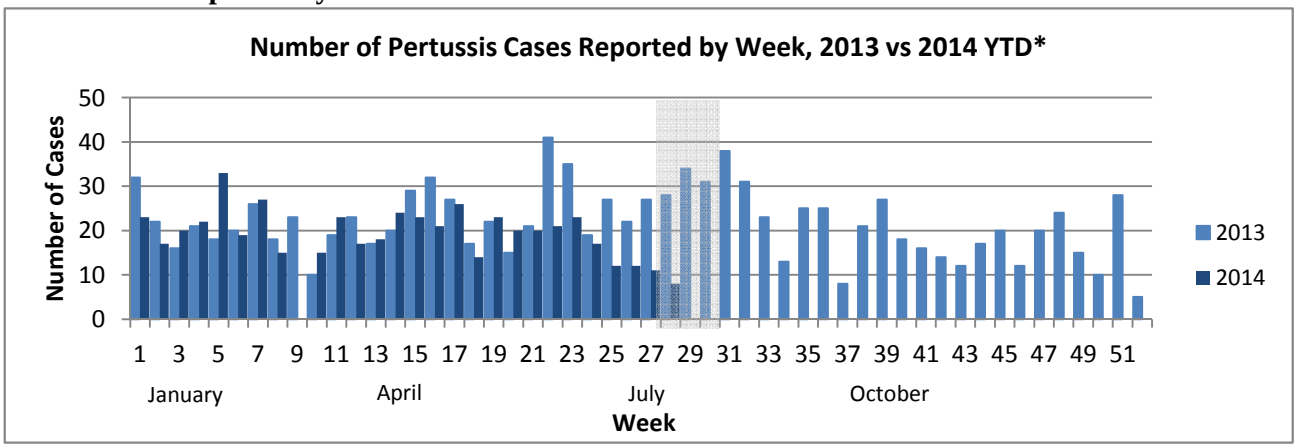
2014 data, through MMWR week ending July 26, 2014 (MMWR week 30)

Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2014 year-to-date (YTD)	548	Utah Incidence rate, 2014 year-to-date (YTD) per 100,000 person-years	33.8
Total number of cases reported 2013	1,331	Utah Incidence rate, 2013 per 100,000 person-years	47.2
Number of cases reported in past week	27	National Incidence rate, 2013 per 100,000 person-years (As of 7/03/2014) *Provisional	7.3
Total number of cases reported, through same time period 2013	712	2014 Hospitalizations	20
Age groups with the highest rates	< 1 year 5-14 year	2014 Cases in infants <1 year	46

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2014 Year-to-Date Incidence Rates, By Age

Age (years)	2014 Cases	2010 population	Rate*
<1	46	51,883	156.3
1-4	56	213,904	46.2
5-14	209	494,285	74.6
15-24	99	463,992	37.6
25-34	22	452,752	8.6
35-44	46	348,250	23.3
45-54	40	310,389	22.7
55-64	20	257,365	13.7
65+	10	262,660	6.7
Total	548	2,855,480	33.8

* Rate is calculated per 100,000 person years

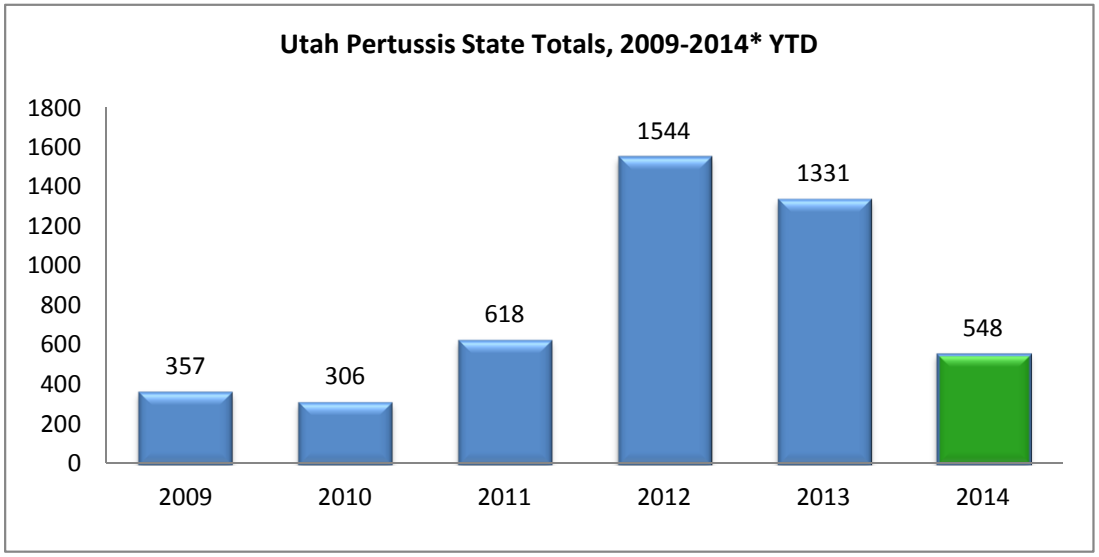
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2014 Year-to-Date

Grade	Age (years)	2014 Cases	2010 Population	Rate*
Preschool	3-4	195	107,474	319.9
Kindergarten	5	8	52,626	26.8
1	6	11	52,405	37.0
2	7	16	51,490	54.8
3	8	13	51,263	44.7
4	9	29	49,029	104.3
5	10	25	49,235	89.5
6	11	27	49,264	96.6
7	12	20	47,284	74.6
8	13	23	46,176	87.8
9	14	37	45,513	143.3
10	15	33	44,006	132.2
11	16	23	44,507	91.1
12	17	16	43,772	64.5

* Rate is calculated per 100,000 person-years
School age incidence rates were calculated using the average age of a student in each grade. The high incidence rates in 5th and 6th grade may be due to waining immunity.

Utah Case Counts of Pertussis, 2008-2013



Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.
* 2014 data includes pertussis cases reported year to date. 2009-2013 data reflects cases reported during the entire calendar year for each year.

Incidence of pertussis by Local Health Department, 2014 YTD

Local Health Department	2014 Cases	Rate*
Bear River	37	38.8
Central Utah	26	60.4
Davis County	76	42.4
Salt Lake Valley	162	26.9
Southeastern Utah	0	0.0
Southwest Utah	4	3.4
Summit County	4	18.6
Tooele County	1	2.9
TriCounty	2	6.4
Utah County	121	39.5
Wasatch County	0	0.0
Weber-Morgan	95	68.0

* Rate is calculated per 100,000 person-years using 2010 Utah population estimates